

Project Title	Funding	Institution
Wnt modulation as a treatment for autism spectrum disorders	\$184,568	University of Iowa
White matter glial pathology in autism	\$0	East Tennessee State University
Verbal/non-verbal asynchrony in adolescents with high-functioning autism	\$402,978	Emerson College
Vasopressin receptor polymorphism and social cognition	\$310,085	Georgia State University
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	\$14,950	University of New South Wales
Using high definition fiber tracking to define developmental neurobiologic mechanisms & a neural basis for behavioral heterogeneity	\$0	Carnegie Mellon University
Using fruit flies to map the network of autism-associated genes	\$124,996	University of California, San Diego
Using Drosophila to characterize the molecular pathogenesis of autism	\$234,000	Massachusetts Institute of Technology
Urokinase-type plasminogen activator plasma concentration and its relationship to hepatocyte growth factor (HGF) and GABA levels in autistic children	\$0	Hartwick College
Unreliability of neuronal responses in mouse models of autism	\$62,500	Carnegie Mellon University
Understanding the brain basis of impaired imitation learning in autism	\$56,900	Kennedy Krieger Institute
Typical and pathological cellular development of the human amygdala	\$369,600	University of California, Davis
Transcriptional responsiveness in lymphoblastoid cell lines	\$0	University of Pennsylvania
Transcriptional control of inhibitory synapse formation	\$353,295	Dana-Farber Cancer Institute
Time Perception and Timed Performance in Autism	\$248,938	Michigan State University
The striatal circuitry underlying autistic-like behaviors	\$31,975	Duke University
The social brain in schizophrenia and autism spectrum disorders	\$498,431	Hartford Hospital
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Baylor College of Medicine
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	\$15,000	Johns Hopkins University
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$0	Cincinnati Children's Hospital Medical Center University of Cincinnati
The neurophysiology of sensory processing and multisensory integration in ASD	\$437,684	Syracuse University
The neural substrates of higher-level learning in autism	\$221,760	University of California, Davis
The neural basis of weak central coherence in autism spectrum disorders	\$26,080	Yale University
The neural bases of top-down attentional control in autism spectrum disorders	\$27,578	City College of New York
The microstructural basis of abnormal connectivity in autism	\$276,865	University of Utah
The impact of Pten signaling on neuronal form and function	\$375,706	Dartmouth College
The flexibility of individuation and ensemble representation	\$47,114	Northwestern University
The effects of autism on the sign language development of deaf children	\$53,942	Boston University
The computational basis of theory of mind in the human brain	\$130,695	California Institute of Technology
The cognitive neuroscience of autism spectrum disorders	\$997,922	National Institutes of Health

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Thalamocortical connectivity in children and adolescents with ASD-A combined fcMRI and DTI approach	\$28,600	San Diego State University
Testing the hyperspecificity hypothesis: A neural theory of autism	\$189,836	Children's Hospital of Philadelphia
Taste, smell, and feeding behavior in autism: A quantitative traits study	\$541,983	University of Rochester
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	University of California, Davis
Subependymal zone function in autism spectrum disorders	\$0	University of Oxford
Study of health outcomes in children with autism and their families	\$496,440	Lewin Group, Inc.
Structural and functional neuroimaging of the auditory system in autism	\$157,938	Children's Hospital of Philadelphia
Structural and functional connectivity of large-scale brain networks in autism	\$168,978	Stanford University
Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$28,580	University of California, San Diego
Statistical word learning in children with language disorders	\$29,355	University of Wisconsin - Madison
Statistical analysis of biomedical imaging data in curved space	\$313,376	University of North Carolina at Chapel Hill
Spatial attention in autism spectrum disorders	\$0	New York University
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$51,400	Seattle Childrens Hospital
Social interaction and reward in autism: Possible role for ventral tegmental area	\$124,936	University of Geneva
Social brain networks for the detection of agents and intentions	\$399,300	Yale University
Social brain circuits and fever-evoked response in 16p11.2 mice	\$87,500	Cold Spring Harbor Laboratory
SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	University of Kentucky Research Foundation
Shank3 in synaptic function and autism	\$385,200	Massachusetts Institute of Technology
Sensory processing and integration in autism	\$524,517	Albert Einstein College of Medicine of Yeshiva University
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	\$27,814	Brandeis University
Roles of miRNAs in regulation of Foxp2 and in autism	\$15,000	Louisiana State University
Role of neuronal migration genes in synaptogenesis and plasticity	\$53,942	Weill Cornell Medical College
Role of neurexin in the amygdala and associated fear memory	\$0	Columbia University
Role of neurexin in synapse formation and maintenance	\$53,942	Stanford University
Role of negative regulators of FGF signaling in frontal cortex development and autism	\$15,000	University of California, San Francisco
Role of major vault protein in autism	\$0	Yale University
Role of LIN28/let-7 axis in autism	\$62,500	Johns Hopkins University School of Medicine
Role of endosomal NHE6 in brain connectivity and autism	\$62,500	Brown University
Role of CNTNAP2 in neuronal structural development and synaptic transmission	\$55,200	Stanford University

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RNA dysregulation in autism	\$250,000	The Rockefeller University
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Georgia Tech Research Corporation
Retrograde synaptic signaling by Neurexin and Neuroligin in C. elegans	\$125,000	Massachusetts General Hospital
Regulation of spine morphogenesis by NrCAM	\$213,120	University of North Carolina at Chapel Hill
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$0	University of California, San Francisco
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$417,271	University of California, San Francisco
Psychobiological investigation of the socioemotional functioning in autism	\$333,590	Vanderbilt University Medical Center
Protein interaction networks in autism	\$62,500	Harvard Medical School
Project 4: Calcium signaling defects in autism (Pessah/Lein)	\$109,730	University of California, Davis
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$29,987	University of Pittsburgh
Preference acquisition in children and adolescents with and without autism spectrum disorder	\$0	Dalhousie University
Pragmatics and semantics in autism spectrum disorder	\$27,487	City University of New York Graduate School and University Center
Physiology of attention and regulation in children with ASD and LD	\$327,380	Seattle Children's Hospital
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$0	Max Planck Florida Institute for Neuroscience
Pathologic and genetic characterization of novel brain cortical patches in young autistic brains	\$53,000	University of California, San Francisco
Pathogenic roles of paternal-age-associated mutations in autism	\$62,500	Weill Cornell Medical College
Optogenetic treatment of social behavior in autism	\$385,000	University of California, Los Angeles
Novel regulatory network involving non-coding role of an ASD candidate gene PTEN	\$240,480	Albert Einstein College of Medicine of Yeshiva University
Novel computational methods for higher order diffusion MRI in autism	\$601,657	University of Pennsylvania
NINDS comment: Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$32,615	State University of New York Upstate Medical Center
Neuroprotective effects of oxytocin receptor signaling in the enteric nervous system	\$0	Columbia University
Neuropeptide regulation of juvenile social behaviors	\$14,775	Boston College
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$143,728	University of Oxford
Neuronal basis of vicarious reinforcement dysfunction in autism spectrum disorder	\$297,527	Duke University
Neuroligin, oxidative stress and autism	\$150,000	Oklahoma Medical Research Foundation
Neuroimaging of top-down control and bottom-up processes in childhood ASD	\$371,791	Georgetown University

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Neurobehavioral investigation of tactile features in autism spectrum disorders	\$161,107	Vanderbilt University Medical Center
Neurexin-neuroligin trans-synaptic interaction in learning and memory	\$100,000	Columbia University
Neural underpinning of emotion perception and its disorders	\$15,000	Dartmouth College
Neural synchronydysfunction of gamma oscillations in autism	\$254,470	University of Colorado Denver
Neural mechanisms of tactile sensation in rodent somatosensory cortex	\$246,278	University of California, Berkeley
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Yale University
Neural circuits that regulate social motivation in autism	\$150,542	University of North Carolina at Chapel Hill
Neural basis of cross-modal influences on perception	\$163,755	University of California, San Diego
Neural basis of behavioral flexibility	\$347,607	Mount Sinai School of Medicine
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$345,000	University of Washington
Networked cortical responses to movement associated with ASD	\$384,222	University of Washington
Multisensory processing in autism	\$0	Baylor College of Medicine
Multiple systems in theory of mind development	\$0	Rutgers, The State University of New Jersey - New Brunswick
Multimodal neuroimaging of motor dysfunction in autism spectrum disorders	\$58,000	University of Colorado Denver
Multimodal imaging of social brain networks in ASD	\$148,945	San Diego State University
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$41,575	Emerson College
Motor control and cerebellar maturation in autism	\$157,148	University of Texas Southwestern Medical Center
Morphogenesis and function of the cerebral cortex	\$393,228	Yale University
Monolingual and bilingual infants' sensitivity to agreement morphology in Spanish	\$137,605	Florida International University
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$404,100	Albert Einstein College of Medicine of Yeshiva University
Molecular signatures of autism genes and the 16p11.2 deletion	\$62,500	Massachusetts General Hospital
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$373,200	University of Michigan
Molecular mechanisms of electrical synapse formation in vivo	\$90,000	Fred Hutchinson Cancer Research Center
Molecular dissection of calmodulin domain functions	\$310,222	University of Iowa
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$201,838	University of California, Los Angeles
Modeling alteration of RBFOX1 (A2BP1) target network in autism	\$60,000	Columbia University
Modeling 5-HT-absorbing neurons in neuropathology of autism	\$200,400	Albert Einstein College of Medicine of Yeshiva University
Met signaling in neural development and circuitry formation	\$230,032	University of Arizona
Matrix metalloproteinases expression in autism spectrum disorders	\$15,000	University of Naples

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Mathematical cognition in autism: A cognitive and systems neuroscience approach	\$610,784	Stanford University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Duke University Medical Center
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$56,900	Washington University in St. Louis
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$291,317	University of Pennsylvania
Macrocephalic autism: Exploring and exploiting the role of PTEN	\$0	University of Wisconsin - Madison
Local connectivity in altered excitation/inhibition balance states	\$125,000	Weizmann Institute of Science
Linking local activity and functional connectivity in autism	\$360,142	San Diego State University
Learning and plasticity in the human brain	\$392,666	National Institutes of Health
Kinetics of drug macromolecule complex formation	\$687,969	University of California, San Diego
Investigation of social brain circuits and fever-evoked response in 16p11.2 mice	\$0	Cold Spring Harbor Laboratory
Investigation of a possible role of the protocadherin gene cluster in autism	\$150,000	Columbia University
Investigating the Role of RBFOX1 in Autism Etiology	\$0	University of Miami
Investigating the role of neuroligin-1 mutation in autism using human induced neuro	\$49,214	Stanford University
Investigating brain organization and activation in autism at the whole-brain level	\$30,000	California Institute of Technology
Investigating brain connectivity in autism at the whole-brain level	\$232,307	Indiana University
Interneuron subtype-specific malfunction in autism spectrum disorders	\$120,000	New York University School of Medicine
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$0	Yale University
Integrative functions of the planum temporale	\$432,343	University of California, Irvine
Inhibitory mechanisms for sensory map plasticity in cerebral cortex	\$316,453	University of California, Berkeley
Influence of attention and arousal on sensory abnormalities in ASD	\$186,000	University of California, San Diego
Impairments of theory of mind disrupt patterns of brain activity	\$308,160	Massachusetts Institute of Technology
Impact of SynGAP1 mutations on synapse maturation and cognitive development	\$661,570	The Scripps Research Institute - Florida
Impact of NR2B mutations on NMDA receptors and synapse formation	\$60,000	Case Western Reserve University
Imaging signal transduction in single dendritic spines	\$449,208	Max Planck Florida Corporation
Identification of genes responsible for a genetic cause of autism	\$125,000	Case Western Reserve University
Identification and analysis of ASD patients with PI3K/mTOR signalopathies	\$66,500	Emory University
How autism affects speech understanding in multitaler environments	\$0	University of Maryland, College Park
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Baylor College of Medicine

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High throughput screen for small molecule probes for neural network development	\$388,800	Johns Hopkins University
High metabolic demand of fast-spiking cortical interneurons underlying the etiology of autism	\$56,000	Weill Cornell Medical College
HCC:Small:Computational studies of social nonverbal communication	\$0	University of Southern California
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$175,802	University of Texas Health Science Center, San Antonio
Genetic model to study the ASD-associated gene A2BP1 and its target PAC1	\$125,000	Weizmann Institute of Science
Genetic models of autism in human neural progenitor cells: a platform for therapeutic discovery	\$54,400	University of California, Los Angeles
Genetic-imaging study of obsessive compulsive behavior in autism	\$360,826	Brown University
GABAergic dysfunction in autism	\$50,000	Johns Hopkins University
Function of neurexins	\$461,977	Stanford University
Function and structure adaptations in forebrain development	\$520,098	University of Southern California
Function and dysfunction of neuroligins in synaptic circuits	\$450,000	Stanford University
Functional connectivity substrates of social and non-social deficits in ASD	\$719,629	Massachusetts General Hospital
Functional connectivity in autism spectrum disorders	\$251,250	Children's Hospital of Philadelphia
Functional Connectivity during Working Memory in Children with ASD: A NIRS Study	\$29,500	Georgetown University
Functional anatomy of face processing in the primate brain	\$1,555,641	National Institutes of Health
Functional analysis of EPHB2 mutations in autism - Project 1	\$89,633	Yale University
Functional analysis of EPHB2 mutations in autism	\$124,950	McLean Hospital
Functional analysis of EFR3A mutations associated with autism	\$62,500	Yale University
Frontostriatal synaptic dysfunction in a model of autism	\$52,190	Stanford University
Face perception: Mapping psychological spaces to neural responses	\$0	Stanford University
Experience and cognitive development in infancy	\$0	University of California, Davis
Executive function in children with typical and atypical language abilities	\$493,697	University of Wisconsin - Madison
Examining connectivity patterns of brain networks participating in social cognition in ASD	\$0	San Diego State University
Evaluating the time-dependent unfolding of social interactions in autism	\$196,987	University of Cincinnati
ERK signaling in autism associated with copy number variation of 16p11.2	\$0	Case Western Reserve University
Enhancing neurobehavioural and clinical definitions in autism spectrum disorders	\$14,000	Monash University
Engrailed targets and the control of synaptic circuits in Drosophila	\$361,875	University of Puerto Rico Medical Sciences Campus
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$451,202	Sloan-Kettering Institute for Cancer Research

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Engagement of Social Cognitive Networks during Game Play in Autism	\$0	Duke University
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$325,130	Brandeis University
Electrophysiological response to executive control training in autism	\$89,670	University of Washington
Effect of paternal age on mutational burden and behavior in mice	\$177,600	University of North Carolina at Chapel Hill
EEG-based assessment of functional connectivity in autism	\$175,176	Kennedy Krieger Institute
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$0	New York University
Dysfunction of sensory inhibition in autism	\$258,134	Johns Hopkins University
Dynamic regulation of Shank3 and ASD	\$604,587	Johns Hopkins University
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	University of California, Irvine
Dissecting Reciprocal CNVs Associated With Autism	\$0	Duke University
Dissecting neural mechanisms integrating multiple inputs in C. elegans	\$477,449	Salk Institute for Biological Studies
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$180,832	Northwestern University
Development of ventral stream organization	\$137,338	University of Pittsburgh
Development of the functional neural systems for face expertise	\$461,095	University of California, San Diego
Development of face processing expertise	\$339,118	University of Toronto
Development of a connectomic functional brain imaging endophenotype of autism	\$13,634	University of Cambridge
Determining the role of GABA in four animal models of autism	\$166,895	Neurochlore
Deciphering the function and regulation of AUTS2	\$0	University of California, San Francisco
Cytoplasmic functions of Rbfox1, a candidate autism gene	\$231,000	University of California, Los Angeles
Corticothalamic circuit interactions in autism	\$200,000	Boston Children's Hospital
Correcting excitatory-inhibitory imbalance in autism	\$112,500	University of North Carolina at Chapel Hill
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$248,999	Princeton University
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$60,000	University of Oxford
Computational characterization of language use in autism spectrum disorder	\$692,911	Oregon Health & Science University
Cognitive control of emotion in autism	\$102,004	University of Pittsburgh
CNTNAP2 regulates production, migration and organization of cortical neurons	\$62,496	Memorial Sloan-Kettering Cancer Center
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Massachusetts General Hospital
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$248,468	Stanford University

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Characterizing the regulatory pathways and regulation of AUTS2	\$0	University of California, San Francisco
Characterizing mechanistic heterogeneity across ADHD and autism	\$556,250	Oregon Health & Science University
Cerebellar plasticity and learning in a mouse model of autism	\$62,500	University of Chicago
Cerebellar modulation of frontal cortical function	\$286,989	University of Memphis
Cellular density and morphology in the autistic temporal human cerebral cortex	\$352,346	University of California, Davis
Cell adhesion molecules in CNS development	\$515,850	The Scripps Research Institute - California
Cell adhesion molecules in autism: A whole-brain study of genetic mouse models	\$448,320	Cold Spring Harbor Laboratory
CDI-TYPE II: From language to neural representations of meaning	\$0	Carnegie Mellon University
Caspr2 as an autism candidate gene: A proteomic approach to function & structure	\$305,280	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School
CAREER: Typical and atypical development of brain regions for theory of mind	\$148,521	Massachusetts Institute of Technology
CAREER: The role of prosody in word segmentation and lexical access	\$0	Michigan State University
CAREER: Statistical models and classification of time-varying shape	\$0	University of Utah
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Cornell University
CAREER: Dissecting the neural mechanisms for face detection	\$0	California Institute of Technology
Canonical neural computation in autism	\$321,362	New York University
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	University of Louisville Research Foundation Inc
Brain Systems Supporting Learning and Memory in Children with Autism	\$173,607	Stanford University
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$506,507	University of Maryland, College Park
Brain electrophysiology of interactive social stimuli	\$54,459	Yale University
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$14,800	Hospital Riviere-des-Praires, University of Montreal, Canada
Brain bases of language deficits in SLI and ASD	\$583,471	Massachusetts Institute of Technology
Biology of non-coding RNAs associated with psychiatric disorders	\$430,144	University of Southern California
Behavioral and neural responses to emotional faces in individuals with ASD	\$29,871	Harvard University
Behavioral and neural processing of faces and expressions in nonhuman primates	\$334,541	Emory University
Behavioral and neural correlates of reward motivation in children with autism spectrum disorders	\$0	University of North Carolina at Chapel Hill
Behavioral, fMRI, and anatomical MRI investigations of attention in autism	\$49,214	Massachusetts Institute of Technology
Bayesian variable selection in generalized linear models with missing variables	\$229,953	Hunter College (City University of New York)

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Autism and the insula: Genomic and neural circuits	\$0	California Institute of Technology
Auditory and integrative functions of the prefrontal cortex	\$374,016	University of Rochester
Atypical architecture of prefrontal cortex in young children with autism	\$149,715	University of California, San Diego
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$53,500	Women & Infants Hospital
Assessment of glutamate delta-1 receptor in mental disorders	\$218,250	Creighton University
Artifacts as windows to other minds: Social reasoning in typical and ASD children	\$49,214	Boston University
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$0	University of California, Los Angeles
A preliminary investigation of the neurobehavioral basis of sensory behavior in autism	\$20,000	Kennedy Krieger Institute
A novel transplantation assay to study human PTEN ASD alleles in GABAergic interneurons	\$60,000	University of California, San Francisco
A neural model of fronto-parietal mirror neuron system dynamics	\$178,100	University of Maryland, College Park
Analysis of Shank3 complete and temporal and spatial specific knockout mice	\$408,192	Duke University
Analysis of autism linked genes in C. elegans	\$62,500	Massachusetts General Hospital
Amygdala circuitry of impaired social-emotional behavior in autism	\$58,488	Rosalind Franklin University of Medicine and Science
Altered sensorimotor processing in a mouse model of autism	\$60,000	Louisiana State University School of Veterinary Medicine
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Cold Spring Harbor Laboratory
A functional genomic analysis of the cerebral cortex	\$486,802	University of California, Los Angeles
Activity-dependent Mechanisms of Visual Circuit Formation	\$0	Children's Research Institute (CRI) Children's National Medical Center
Action anticipation in infants	\$105,936	University of Chicago
ACE Center: Ontogeny and neural basis of social visual engagement in monkeys	\$304,370	Emory University
Abnormal connectivity in autism	\$15,000	University of California, Los Angeles
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$0	University of California, Davis
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3 Tesla 31Phosphorus magnetic resonance spectroscopy in disorder with abnormal bioenergetics	\$0	Massachusetts General Hospital

